



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Re Application of: Mills et al.  
Title: BROMINATION OF HYDROXYAROMATIC COMPOUNDS  
Serial No.: 10/650,566  
Filing Date: August 28, 2003

Date: November 6, 2003

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

The following are submitted in the above application in compliance with 37 CFR 1.97 and 37 CFR 1.98.

- [ X ] 1. A list of documents on Form PTO-1449 or Substitute together with copies of each identified document and a translation thereof or a concise explanation of each non-English language document or a Search Report or communication from a non-US patent office or an International Search Report from an International Searching Authority for a patent application filed via the Patent Cooperation Treaty or document(s) cited in the application or the priority application.

This paper is submitted in accordance with:

[ X ] 2. 37 CFR 1.97(b): [within three months of national, non-CPA filing, prior to first Office Action, on the merits, or prior to first office action after filing an RCE]

[ ] 3. 37 CFR 1.97(c): [before Final Office Action, Allowance, or other action closing prosecution, whichever is earlier]; and

[ ] a. The required Certification made in item 5 below; or

[ ] b. The \$180.00 fee specified in 37 CFR 1.17(p) for submission of this Information Disclosure Statement is authorized in item 6 below.

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date indicated below.

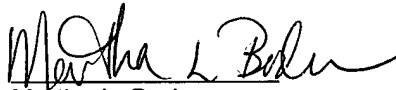
By Martha L. Boden  
Martha L. Boden

Date: November 6, 2003

- ☐ 4. 37 CFR 1.97(d): [on or before issue fee payment]; and
- a) The required Certification is stated in item 5 below and
  - b) The \$180.00 fee specified in 37 C.F.R. 1.17(p) for submission of this Information Disclosure Statement is authorized in item 6 below.
- ☐ 5. Certification
- ☐ a. Each item of information contained in this Statement was first cited in any communication from a foreign patent office in a counterpart foreign patent application not more than three months prior to the filing of this Statement; or
  - ☐ b. No item of information contained in this Statement was cited in a communication from a foreign patent office in a counterpart foreign patent application and, to the knowledge of the person signing this document after making reasonable inquiry, no item of information contained in this Statement was known to any individual designated in 37 CFR 1.56(c) more than three (3) months prior to the filing date of this Statement.
- ☒ 6. Payment of all applicable fees:
- ☒ Please charge all applicable fees associated with the submittal of this Information Disclosure Statement to Deposit Account No. 08-1935.
  - ☐ Enclosed is a check in the amount of \$\_\_\_\_\_ in payment of all applicable fees associated with the submittal of this Information Disclosure Statement.

This document is submitted in duplicate.

Respectfully submitted,



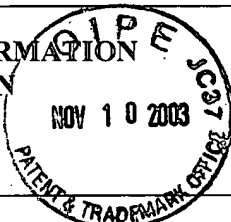
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|---|-------------------------|------------------------|
| SUPPLEMENTAL INFORMATION<br>DISCLOSURE CITATION | Docket No.: 134997-1    | Serial No.: 10/650,566 |
|   | Inventor: Mills et. al. | Examiner:              |
|   | Filing Date: 08-28-03   | GAU:                   |



**UNITED STATES PATENT DOCUMENTS**

| Examiner Initial |  | Document Number | Date | Name | Class | Subclass | Filing Date If Appropriate |
|------------------|--|-----------------|------|------|-------|----------|----------------------------|
|                  |  |                 |      |      |       |          |                            |
|                  |  |                 |      |      |       |          |                            |

**FOREIGN PATENT DOCUMENTS**

|  |  | Document Number | Date | Country | Int'l Class | Int'l Subclass | Translation |    |
|--|--|-----------------|------|---------|-------------|----------------|-------------|----|
|  |  |                 |      |         |             |                | Yes         | No |
|  |  |                 |      |         |             |                |             |    |
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**OTHER DOCUMENTS**

*(Including Author, Title, Date Pertinent Pages, Etc.)*

|  |    |  |
|--|----|--|
|  | CA | K-J Lee et al., "Bromination of Activated Arenes by Oxone® and Sodium Bromide", <i>Bull. Korean Chem. Soc.</i> 22 (5), 773-74 (2002).  |
|  | CB | R. Neumann and I. Assael, "Oxybromination Catalysed by the Heteropolyanion Compound H <sub>3</sub> PMO <sub>10</sub> V <sub>2</sub> O <sub>40</sub> in an Organic Medium: Selective para-Bromination of Phenol", <i>J. Chem. Soc., Chem. Commun.</i> , 1285-87 (1988). |
|  | CC | U. Bora et al., "Regioselective Bromination of Organic Substrates by Tetrabutylammonium Bromide Promoted by V <sub>2</sub> O <sub>5</sub> -H <sub>2</sub> O <sub>2</sub> : An Environmentally Favorable Synthetic Protocol", <i>Org. Lett.</i> , 2 (3), 247-49 (2000). |
|  | CD | K. Krohn et al., "Para-Selective Chlorination and Bromination of Phenols with tert-Butyl Hydroperoxide and TiX(OiPR) <sub>3</sub> ", <i>J. Prakt. Chem.</i> 341 (1), 59-61 (1999).   |
|  | CE | T. Oberhauser, "A New Bromination Method for Phenols and Anisoles: NBS/HBF <sub>4</sub> ·Et <sub>2</sub> O In CH <sub>3</sub> CN", <i>J. Org. Chem.</i> 62, 4504-06 (1997).  |
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| EXAMINER: | Date Considered |
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